1 RECORD OF ORAL HEARING
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3 UNITED STATES PATENT AND TRADEMARK OFFICE
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6 BEFORE THE BOARD OF PATENT APPEALS
7 AND INTERFERENCES
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10 Ex parte JACK E. CAVENEY
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13 Appeal 2007-2478
14 Application 10/613,062
Technology Center 3600
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Oral Hearing Held: November 14, 2007
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22Before WILLIAM F. PATE, III, MURRIEL CRAWFORD, JOSEPH A.
23FISCHETTI, Administrative Patent Judges
24 25ON BEHALF OF THE APPELLANT:
26 27 CHRISTOPHER S. CLANCY, ESQUIRE
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The above-entitled matter came on for hearing on Wednesday,
34November 14, 2007, commencing at 10:20 a.m., at The U.S. Patent and
35Trademark Office, 600 Dulany Street, Alexandria, Virginia, before Deborah

36Rinaldo, RPR, Notary Public.

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PROCEEDINGS

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3 JUDGE PATE: Good morning, Mr. Clancy. We are up to speed on 4your case and we're ready to hear your argument.

- 5 MR. CLANCY: Good morning, Your Honors. There are two issues 6before the Board this morning, first, whether claims 7 through 9, 11 and 12 7 and 20 to 24 are unpatentable under 103(a) over Blanks U.S. 5732446, in 8view of Andersen 6035495, and Sauer U.S. 4300270.
- 9 The second issue is whether claim 10 is unpatentable over 35 U.S.C. § 10103(a) over Blanks in view of Anderson and Sauer and further in view of 11Thurston U.S. RA 25769.
- 12 Independent claim 7 recites -- and I'll direct you to figures 2, 6 and 8
 13as best for showing the return loop, includes at least one rib 38 disposed
 14thereon. And claim 7 also defines the return loop as connecting the first end
 15of the strap to the hooked portion of the strap.
- I would like to first address the primary 103 reference, Blanks, the 17446 reference. Appellants agree with examiner that Blanks discloses all of 18the limitations of the claimed invention except for three things. One, the 19ribs 38 disposed along the return loop; two, the indentations at 36 and 20opposite sides of the locking head; and three, the lead-in portion 60 at the 21strap entry phase 48.
- And I would like to focus the majority of my argument today on the 23ribs 38 along the return loop which is claimed in independent claim 7. And 24that is where the appellants disagree with the examiner's contention that 25Andersen 495 discloses using a reinforcing rib 13 on a return loop 12.
- 26 JUDGE PATE: Do you disagree that that's not a reinforcing rib or

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- MR. CLANCY: Well, initially I would it is a reinforcing rib, but I 3would contend that it does not juncture 12' as best shown in figures 1 or 2 4of Andersen is not a return loop that connects a first end of a strap to a hook 5portion of the strap.
- But for purposes of this argument and I think to get to the guts of it, 7even if you were to assume that juncture 12' is a return loop, appellants still 8feel that Andersen teaches away from adding these reinforcing ribs 13 to the 9Blanks metal tie band.
- 10 JUDGE FISCHETTI: Aren't the forces acting on Andersen very 11much, if not, identical to the same forces acting at the juncture in Blanks?
- MR. CLANCY: If you look -- to answer your question, they may be.

 13There are definitely forces applying in Blanks at the return loop which the

 14examiner has pointed out is 28, as well as forces at the juncture 12 prime in

 15Andersen. But that's where the similarities end.
- If you look at column 2, lines 62 to 65 of Andersen, it discusses tab 14 17has reinforcing rib 13, a cross juncture 12 to restrain tab 14 against bending 18when the clamp is tightened. Those ribs are added to prevent the clamp 19from being overtightened.
- Now, on the other hand, in the applicant's invention, the stiffening ribs 2138 along the return loop do not restrain the strap 28 from bending when the 22strap is tightened.
- In fact, if the strap 28 was restrained at all from bending or even 24 excessive bending by the ribs, the cable tie itself would not work for its 25 intended purpose. And that is one of the reasons why appellants contend 26 that it would not be obvious to incorporate the reinforcing ribs 13 from

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1 Andersen into Blanks

- In fact, if you look at figures 2 and 6 in the present application, you'll see that the stiffening ribs, in essence, span approximately 180 degrees along 4the return loop. They sort of fold back upon themselves.
- Whereas, on the other hand, in Andersen the reinforcing rib 13 is 6specifically intended to prevent tab 14 from folding back upon itself when a 7clamp is tightened. Again, the rib 13 there is to prevent overtightening of 8the clamp. And if that was not there implied from Andersen is that there 9would be this overtightening and a deformation of the tab 14.
- JUDGE FISCHETTI: But there's still a concurrent use for that labutment. I guess rib 13 is to also serve to reinforce, right? It has two l2purposes, to keep overtightening and to keep that tab at a right angle, no?
- MR. CLANCY: Yes. But I contend that they are in essence the same 14function. The reason it is meant to reinforce is to prevent it from 15overtightening. If it was not present at the juncture 12 prime, the clamp 16would deform and thus the clamp itself would overtighten.
- JUDGE FISCHETTI: Let's just say on an oversized pipe at some 18point where a diameter of that pipe was going to be so large that I could 19never get to the point where element 13 would effectively create the 20abutment that it needs to prevent overtightening. But still at some juncture 21that element is going to serve as a reinforcement, correct?
- 22 MR. CLANCY: You are correct.
- JUDGE FISCHETTI: So you can basically separate out the two 24functions in a scenario where just preventing the member from being ripped 25apart by use of that reinforcement, right?
- MR. CLANCY: Potentially, yes. That does not appear to be taught

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1by Andersen. I would contend that there is not really a suggestion for just 2applying that rib, you know, to any other device.

- Even if you were to say, okay, this reinforcing rib 13 could be applied 4to the metal tie band in Blanks like the examiner has done in this case, well, 5do you put it in the return loop? Do you put it on the locking head? Maybe 6you put it on the first end of the strap.
- There is a lot of considerations that go into where you would put the 8rib. So I mean, there's nothing in Andersen that would lead one to believe 9that, yes, you have to put this on the return loop or the locking head or the 10first end of the strap.
- In its broadest sense it is a return rib, but there is no -- I understand 12under KSR there are different delineations for -- it's not a teaching 13suggestion or motivation, but there still has to be some impetus to combine 14one reference with another.
- 15 JUDGE FISCHETTI: Why not common sense telling you at the place 16where you would first expect pull out from the pressures attendant to 17clamping?
- MR. CLANCY: The first place you may consider would possibly be 19on the locking head itself because once the strap is tightened, that's arguably 20your first point of failure. It could be the return loop. It could be the locking 21head
- A lot depends on the force that is applied and the tensile strength.

 That's, I guess, part of my point. I don't think it is common sense or intuitive athat, yes, you have to put it on a return loop.
- You look at Blanks and other cable type -- cable type patents starting 26with bale ties for cotton have been around since, I believe, the late 1800s,

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1early 1900s. So this art is very old and very established.

- But yet at no point has it been disclosed anywhere in a cable tie 3reference to put a rib on the return loop on the locking head or even the first 4end of the strap. There is different features on here and I would contend that 5that goes a long way towards why it would not be obvious to one of skill in 6this art.
- To an outsider just looking at these two references, this, this, put this 8there, you know, yeah. But that's not the test here. It's what one of ordinary 9skill in the art at the time of this invention was made would be taught or 10motivated by Blanks in combination with Andersen.
- 11 It's appellant's position that, yes, Andersen does disclose a reinforcing 12rib 13, but there would not be a motivation or any impetus to put this on the 13metal tie of Blanks at the return loop even if there was a motivation to put it 14somewhere on there, which, okay, for purposes of argument, you want to 15reinforce it, you want to strengthen it.
- 16 It's generally known use stiffening ribs, reinforcing ribs, et cetera.
 17But where to put that, there is no impetus or motivation in Andersen that it
 18should be applied to the return loop.
- 19 JUDGE PATE: Let's go on to your second issue.
- MR. CLANCY: Sure. Claim 10 -- actually, can I address -- I guess, 21to address claim 10 where it says the strap is coated, appellant's -- claim 10 22will stand or fall with independent claim 7. So I would like to address 23dependent claim 9, if I could.
- 24 JUDGE PATE: Okay.
- 25 MR. CLANCY: Dependent claim 9 requires a locking head 24 26 including a lead-in portion 60 at the strap entry phase. And if you look at

- Ifigure 2 in Blanks, the examiner contends that reference numeral 28 which 2he's identified as the return loop includes a lead-in portion.
- There is not a reference numeral applied to that. Presumably it would 4be the surface above 21, which 21 just defines the strap receiving 5passageway.
- If you would compare that to figures 10 through 13 in applicant's 7invention, if you look at the right side of the drawing, the lead-in portion 60 8is different than what's defined as a strap passageway 21 in Blanks.
- 9 You'll see, for example, in figure 11 where the cable tie head comes 10down, levels off and then ramps up at lead-in portion 60.
- That lead-in portion speeds installation of cable ties because it allows 12the tip to be grabbed even if installed at a steeper angle. If it's not coming in 13parallel to a lead-in portion, but say at 45 degrees, it can still catch or be 14caught by the lead-in portion.
- JUDGE PATE: Claim 9 just says the lead-in portion, though, right?
- MR. CLANCY: I believe it says at the strap entry.
- 17 JUDGE PATE: It has a location, but it doesn't have any of this stuff 18about ease in putting it together or guiding it in or anything.
- 19 MR. CLANCY: No. It just says lead-in portion at the strap entry 20 phase. That's correct. Whereas in Blanks, the 21 would presumably be the 21 strap entry phase and there is not shown a lead-in portion there.
- There is no discussion in Blanks of the need for one or desire for one. 23That was what the examiner relied on for that feature. So appellants would 24contend that that feature is not shown and dependent claim 9 is separately 25patentable.
- 26 Are there any other questions this morning, Your Honors?

- 1 JUDGE PATE: No questions here. We'll take this case under 2advisement. Thank you for your presentation.
- 3 MR. CLANCY: Thank you for your time this morning.
- 4 (Whereupon, the proceedings at 10:33 a.m. were concluded.)